

400 Seventh St., S.W. Washington, D.C. 20590

DOT-E 9149 (FOURTH REVISION)

EXPIRATION DATE: October 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Ethyl Corporation Richmond, VA

2. PURPOSE AND LIMITATION:

- a. This exemption authorizes the transportation in commerce of the hazardous materials listed in paragraph 6 below in non-DOT specification IMO type portable tanks. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.
- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
- 3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
- 4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.242(c), 173.243(c), 173.244(c) and 174.63(c)(1) in that non-DOT specification portable tanks specified in this exemption are authorized.
- 5. <u>BASIS</u>: This exemption is based on the application of Ethyl Corporation dated October 19, 2000, and supplemental information dated November 7, 2000, and January 2, 2001, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Metal carbonyls, n.o.s. (methylcyclopentadienyl manganese tricarbonyl)	6.1	UN3281	II
Flammable liquid, toxic, n.o.s. (xylene, methylcyclopentadienyl manganese tricarbonyl)	3	UN1992	III
Flammable liquid, n.o.s. (contains petroleum distillates)	3	UN1993	III
Motor fuel anti-knock mixtures	6.1	UN1649	, I

- 7. SAFETY CONTROL MEASURES: Prescribed packaging is a non-DOT specification portable tank, mounted in an ISO frame, designed and constructed in accordance with Bleiwerk Goslar KG drawings 82-2-6684.00 and 82-1-6684.01 dated June 14, 1983, other drawings, technical specifications and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and in compliance with the following:
 - a. Code Conforms with DOT Specification 51 except that the tanks are not ASME Code stamped; IMO Type 1.
 - b. Insulation None
 - c. Water Capacity (U.S. Gallons) 3,065
 - d. Material German fine grain carbon steel St E 36; Yield strength - 51,475 psi; Tensile strength -71,050 psi; Equivalent to ASTM A516 grade 70.

(outside dia) x (length) x (thickness)

e. Tank Size (inches) - 64.96 231.5 0.3937

Head Thickness - 0.3937 Weld Joint Efficiency - 1.0

f. Design Pressure (PSIG) - 100

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<u>Note</u>: Design pressure means "maximum allowable working pressure (MAWP)" as used in the ASME Code.

- g. Test Pressure, Minimum (PSIG) 150
- h. Openings One (1) 20-inch diameter manhole containing filling and discharge connections, vent connection, pressure relief device connection, and a blank flange on top; no bottom outlets.
- i. Tank surface area (square feet) 342
- j. Pressure Relief Devices One (1) 1.5-inch diameter spring loaded safety relief valve in series with and outboard of a rupture disc both set at 100 psi. Total relief device capacity is 144,240 SCFH.
- k. G-Loadings Vertical down <u>2</u>; Vertical up <u>2</u>; Longitudinal <u>3.5</u>; and Transverse <u>1.5</u>.
- 1. Maximum Gross Weight (pounds) 57,320
- m. Maximum Commodity Weight (pounds) 45,415
- n. Tare Weight (pounds) 11,905
- o. Design Specific Gravity 1.78
- p. Design Temperature (°F) 140

8. SPECIAL PROVISIONS:

- a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.
- b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
- c. Each portable tank must be plainly marked on both sides near the middle, in letters at least two inches high on a contrasting background, "DOT-E 9149".
- d. Hydrostatic test certificates for each tank must be maintained by the manufacturer or owner at its principal

business office and be made available to any representative of the DOT upon request.

- e. Each portable tank must be marked with the appropriate proper shipping name listed in paragraph 6 of this exemption.
- f. The tank must be filled as not to be liquid full at less than or equal to $130^{\circ}F$.
- g. Each tank must be (i) visually inspected prior to each trip to insure that it has not been damaged on the previous trip; and (ii) retested and reinspected once every five years in accordance with § 173.32b as prescribed for DOT Specification 51 portable tanks.
- h. Portable tanks may not be transported in container-onflat car (COFC) or trailer-on-flat (TOFC) service except under conditions approved by the Associate Administrator, Federal Railroad Administration.
- i. The exemption does not apply to operations beyond the jurisdiction of the United States of America.
- 9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel.
- 10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this exemption.
- 11. <u>COMPLIANCE</u>: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 <u>et seq</u>:
 - o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

Robert A. McGuire

JAN 9 2001

(DATE)

Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: AM